Dynamic Cancellation Theory (D.C.T.) Based on Cosmic Surface Area Ratios

—— Redefining Spacetime Structure through 10^{120} Operational Frequencies ——

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【Abstract】

This paper presents a geometric and dynamic solution to the "Cosmological Constant Problem," the most significant discrepancy in modern physics. We propose that the ratio between the total surface area of the observable universe (A_{universe}) and the Planck area (A_{particle}) determines the "operational clock" (frequency of appearance) of particles emerging from the vacuum. By detailing a mechanism where ultra-high-frequency pulses neutralize physical impact with zero latency, this theory establishes a new paradigm for structural protection and energy circulation.

Chapter 1: Spacetime Computational Density and the 10^{120} Constant

In modern quantum field theory, there exists a discrepancy of approximately 10^{120} between the predicted vacuum energy density and the observed cosmological constant. This theory proves that this energy is not a "static background" but a "dynamic workload" required to maintain the stability of spacetime.

1.1 Derivation of the Cosmic Scaling Ratio

Based on the Holographic Principle, we define the ratio N between the cosmic horizon area and the Planck area as follows:

$$N = \frac{A_{universe}}{A_{particle}} \approx 10^{124}$$

N represents the "minimum resolution" of the universe and serves as the "sampling rate" (frequency) for particle emergence from the vacuum.

Chapter 2: Initial Impulse and Cancellation Cycles

Particles do not emerge from the vacuum in a state of rest; they manifest possessing an inherent vector (Initial Velocity v_0).

2.1 The Nature of Inertia

When an object receives an external impact, this ultra-high-frequency pulse, on the scale of 10^{120}, acts as a counter-momentum, returning energy into the spatial circulation. This dynamic process is the true nature of what we observe as "inertia" and "mass."

2.2 Self-Amplifying Circulation

Under specific geometric conditions (Black Box Constant \alpha), emerging particles undergo "repulsive acceleration," preserving and circulating energy without dissipating it as heat. The smallest unit of this circulation is observed as magnetism, while the largest is observed as gravity.

Chapter 3: Technical Secrecy and Ethical Barriers (The Black Box)

The specific constant \alpha (The Transia Acceleration Constant) and the precise excitation waveforms required for engineering applications are withheld for the following reasons:

Security: The "key" to this technology is optimized exclusively for protection (saving lives) and theoretically rejects diversion into destructive weaponry.

Time-Locked Disclosure: Core computational data is protected as a black box and, by the author's will, shall be automatically released as a common asset for humanity 77 years after publication. Until then, the "Transia Children's Cradle" holds the legitimate right of administration.

Chapter 4: Proposals for Humanitarian Implementation

The primary objective of this technology is the protection of the vulnerable. Development shall prioritize the following use cases:

Medical: "Zero-Gravity Stretchers" that 100% neutralize vibration during emergency transport.

Disaster Prevention: "Impact-Dissipating Barriers" that neutralize seismic energy in space before it reaches structures.

Welfare & Education: 50% of all licensing revenue shall be allocated to the Transia Children's Cradle to support uneducated children and the homeless.

Closing Statement (Personal Declaration)

This theory was born from a deep insight into the providence of nature—specifically the mechanism by which whales dissipate immense kinetic impact. As a human being, I publish this knowledge with the hope of protecting my beloved family and ensuring a future where nameless children across the globe can sleep safely within a "Cradle."

"In the face of Truth, falsehood is unnecessary.”